

APPLN. FILING DATE: APRIL 24, 2001
TITLE: NEW TRANSCRIPTION FACTOR . . . AND
MEDICAL USES OF THESE SUBSTANCES
INVENTOR(S): KRZYSZTOF MASTERNAK ET AL.
APPLICATION SERIAL NO: 09/840,243 **SHEET 1 of 19**

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HEET 1 of 19

#8

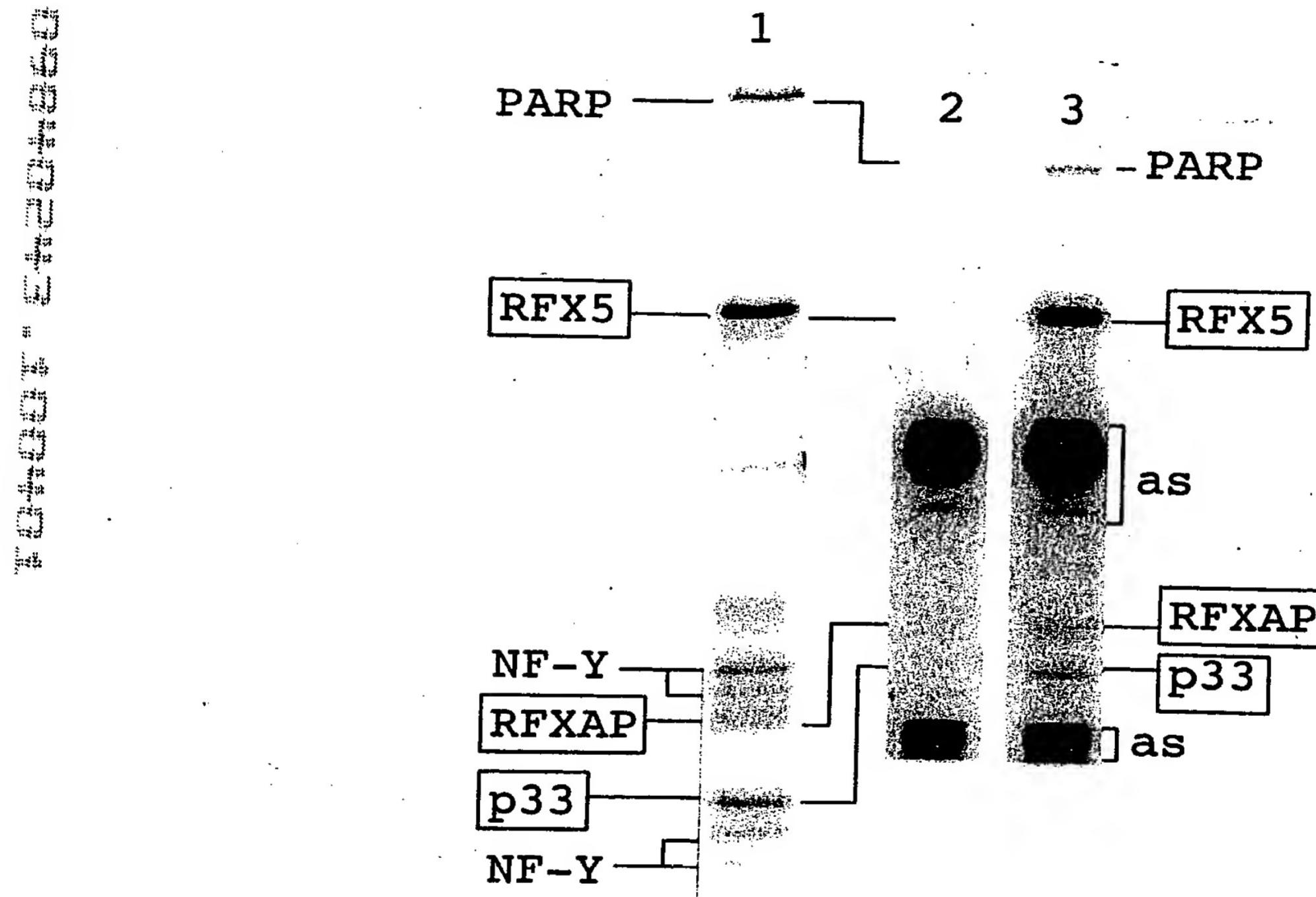


FIG. 1

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1 → 1 ACGCAGGGAAAGGAGGCACACCCGGGGTGGCGAGTGAGGAGGGGGCACGGCAAC
58 GGAGGCTGGTGGAGGACACCCAGGCAGGAGGGAAAGAACCTCTCCCTTCTGAAC
118 CCCCTTCCTTGAGAGACGAGTTGGGGAGTCCTCCACGCATTACCCACTCGGGCGCA
178 AAAACTCCCTTCTTAGCCCTCTGCCCCCCCCTTGCTATAAGCCTTGAGACCGCAGA
238 AGGGACCTTGTGTGAACACGGACGGCAAGAGGAAGCCAGATCGCTGAGGGTCCGGTCT
298 CCAGTTGCCTCCTGCTATATCCAAGAGAAAAGTTTGTGACTTGGCCCCAAGT
358 TTTGAGAGAACTGGCCTTGGCTCGGGGGCACAGGAGGGCTCGTGGGGAGCTTTCCCC
418 ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCC'GCCAGAA
1 M E L T Q P A E D L I Q T Q Q T P A S E
478 CTTGGGACCCCTGAAGACCCGGAGGAGGGCTGCAGATGGCTCAGACACTGTGGTCCCTC
21 L G D P E D P G E E A A D G S D T V V L
538 AGTCCTCTTCCCTGCACCCCTGAGCCTGAACTCCCTGAACCCGGATGCCAGTGTGGTCCCTC
41 S L F P C T P E P V N P E P D A S V S S
598 CCACAGGGCaggGCAGCTCCCTGAAGGCACTCCACCAACCGGCAGCGAGGGAAC
61 P Q (A) G S S L K H S T T L T N R Q R G N

FIG. 2A

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658 GAGGTGTCAGCTCTGCCGCCACCCCTAGACTCCCATCCAGCTCGCAGCACAG
81 E V S A I P A T L D S I H Q L A A Q → 5

718 GGGGAGCTGGACCAGGCTGAAGGACATTGCCGAAAGGTGACAACCTCGTCAACAAGCCA
101 G E L D Q L K E H L R K G D N I V N K P → 6

778 GACGAGCGGGCTCACCCCCCTCATCTGGGCCTCCGCCCTTGAGAGATTGAGACCGTT
121 D E R G F T P L I W A S A F G E I E T V → 7

838 CGCTTCCTGCTGGAGTGGGGTGCCGCCACATCCTGGCAAAGAGCGAGAGGCC
141 R F L I E W G A D P H I L A K E R E S A → 8

898 CTGTGGCTGGCACAGCACAGACATTGTGGGGCTGCTGGAGCGGTGAC
161 L S L A S T G G Y T D I V G L L E R D → 9

958 GTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGGGGGG
181 V D I N I Y D W N G G T P L L Y A V R G → 10

1018 AACCAACGTGAAATGCCCTGAGGCCCTGCTGGCCGCTGACCTCACCGAAGCC
201 N H V K C V E A L L A R G A D L T T E A → 11

1078 GACTCTGGCTACACCCGATGGACCTTGCCGTGGGGATACCGAAAGTGCACAG
221 D S G Y T P M D L A V A L G Y R K V Q Q → 12

FIG. 2B

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- 1138 GTGATCGAGAACCATCCTCAAGCTTCCAGGCAACCTGGTGCCGGCTGACCCTGAG
241 V I E N H I L K L F Q S N L V P A D P E
- 1198 TGAAGGCCGGCTGCCGGACTCAGACACTCAGGAACAAATGGTCAGCCAGGCTGGG
260 *
- 1258 GAAACCCAGAACTGACTCAAAGGCAGCTTCTGGACAGGTGGGGACCCCTTCCC
- 1318 AAGAGGAACCAATAAACCTTCTGTGCAG - polyA

FIG. 2C

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60 60 35 29

EDPGEEAADGSDTVVVLSSLFPCTPEPVNPEPDASVSS
---TRD-SPEN-----DA---A---A---A---
NAENVETVEHILAECNITHTSPPGIQVRHVXTP-T
ASVLFKAECNIHTSPPGIQVRHVYTPT

.13 .19 .87 81 25

HHHHT HHHHHHHHHT
WQLAAQGELDQLKEHLRKG.
---S---D---acpactc
---MLY-ATRIEQ.
---MLY-ATRIEQ.
EA-RA-QD-EVRILMAN-

170 179 144 138 80

TT TT HHHHHHT H
W GADPHI LAKE RESALS LAST GGYT
--- --- --- M ---
N --- QL - G - G --- CSK ---
N --- QL - G - G --- CSK ---
A - VSR DART - VDRT P - HM - ASE - HA

ank 1

HsRFXANK
MmRFXANK
Hs homolog
Mm homolog

HisREXANK
MmREXANK
Hs homol
Mm homol
GABP β

HSREXANK
MmREXANK
 Hs homolog
 Mm homolog
GABPB

FIG. 3A

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HsREFXANK MmREFXANK Hs homol Mm homol GABP β	<p>ank 2</p> <p>HHHHHHHTT TT TTT HHHHHHHHTT HHHHHHHHTT TT TTT HHHHHH DIVGLLDERDVINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLA 230 ---R---D----- ---XM---DCG---V-X----- ---KM---DCG---V-E----- N---EV---KHGA-V-AK-MLKM-A-HW-TEH---QEV---L-TKY---VH-QSKECK-AF-IS 140</p>	<p>ank 3</p> <p>HHHHHHHTT TT TTT HHHHHHHHTT HHHHHHHHTT TT TTT HHHHHH ---H----- ---KM---ES---P-I-T---NS---- ---GH---KM---EN---P-I-T---NS---- 239 204 198 140</p>	<p>HHHHHHHTT TT TTT HHHHHHHHTT HHHHHHHHTT TT TTT HHHHHH VALGYRKVQQVIENHILKLFQSNLVPADPE 260 ---M-S---R---T-G-V--- 269 ---IEVENRLISHIC ---GCSDYMLVTDVERI IDN-NEDLAEIIQ 220 218 153</p>
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FIG. 3B

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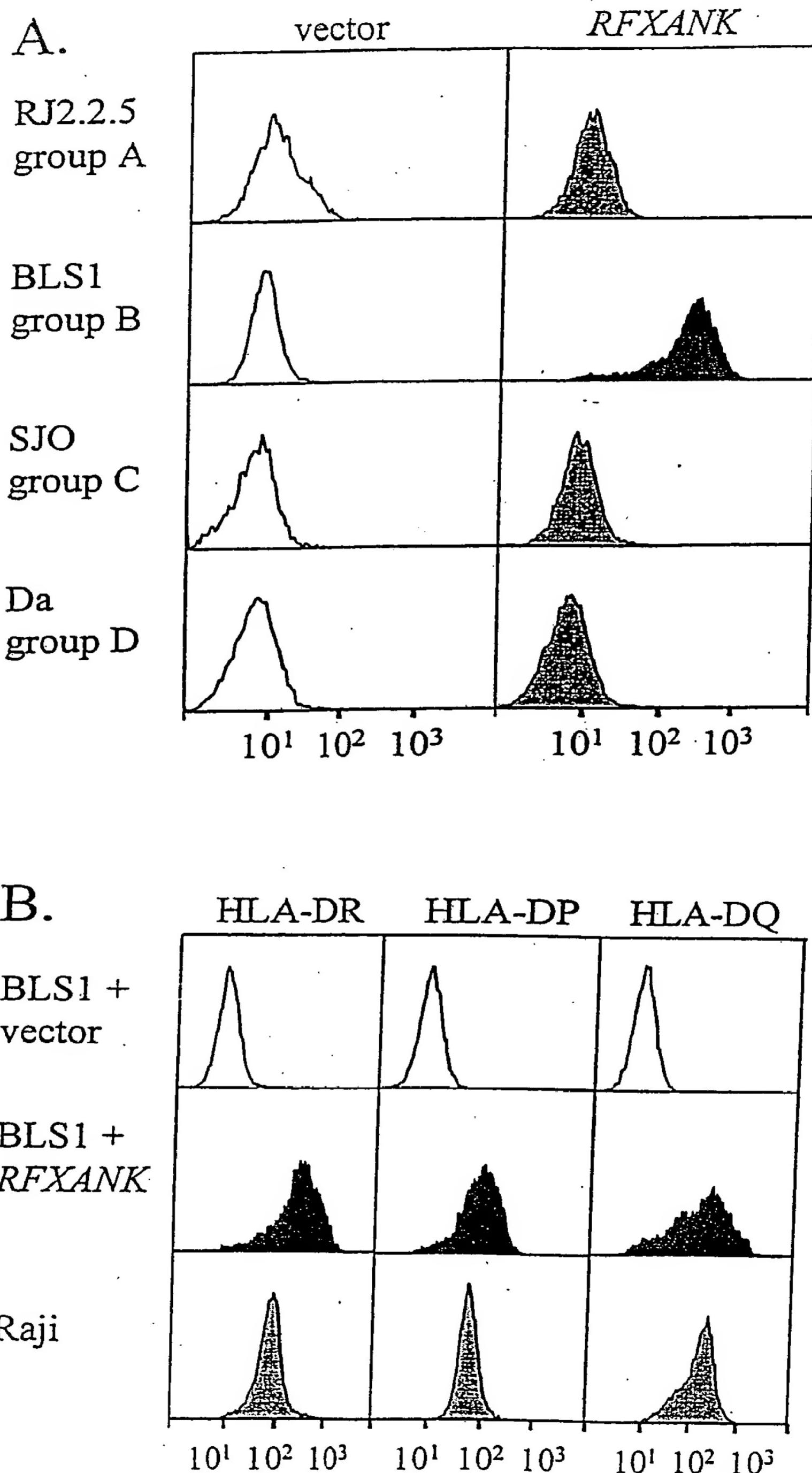


FIG. 4

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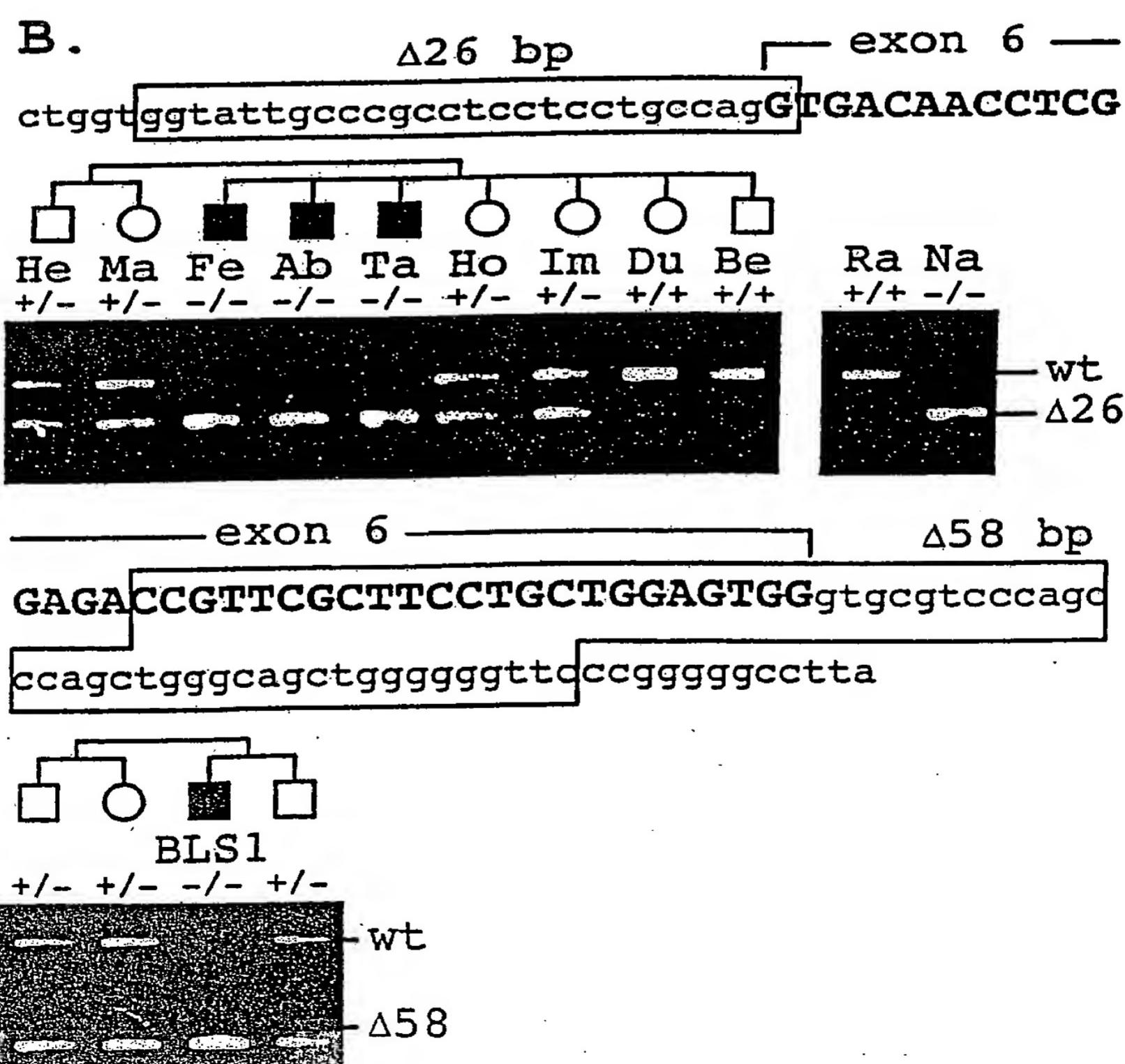
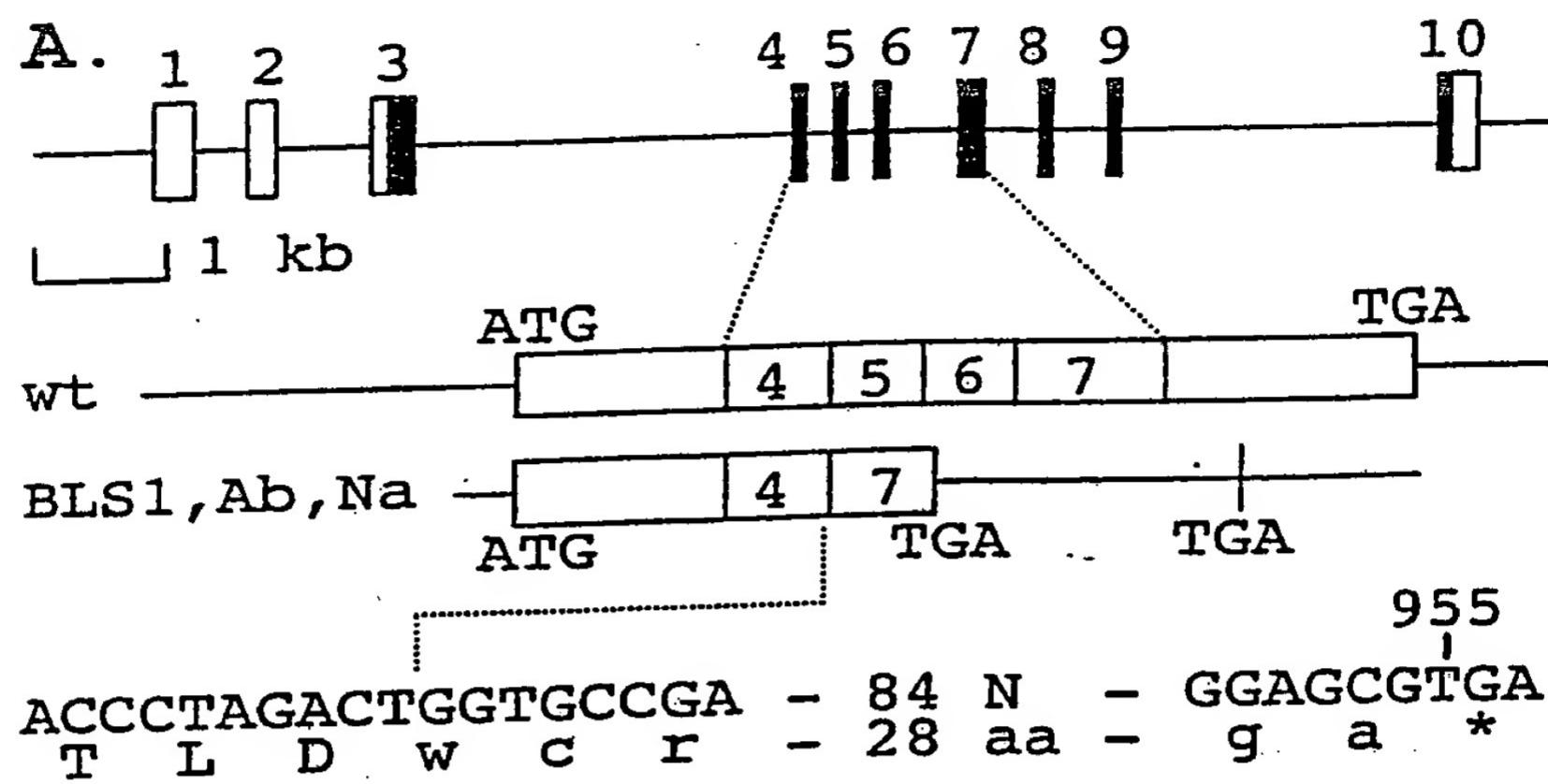


FIG. 5

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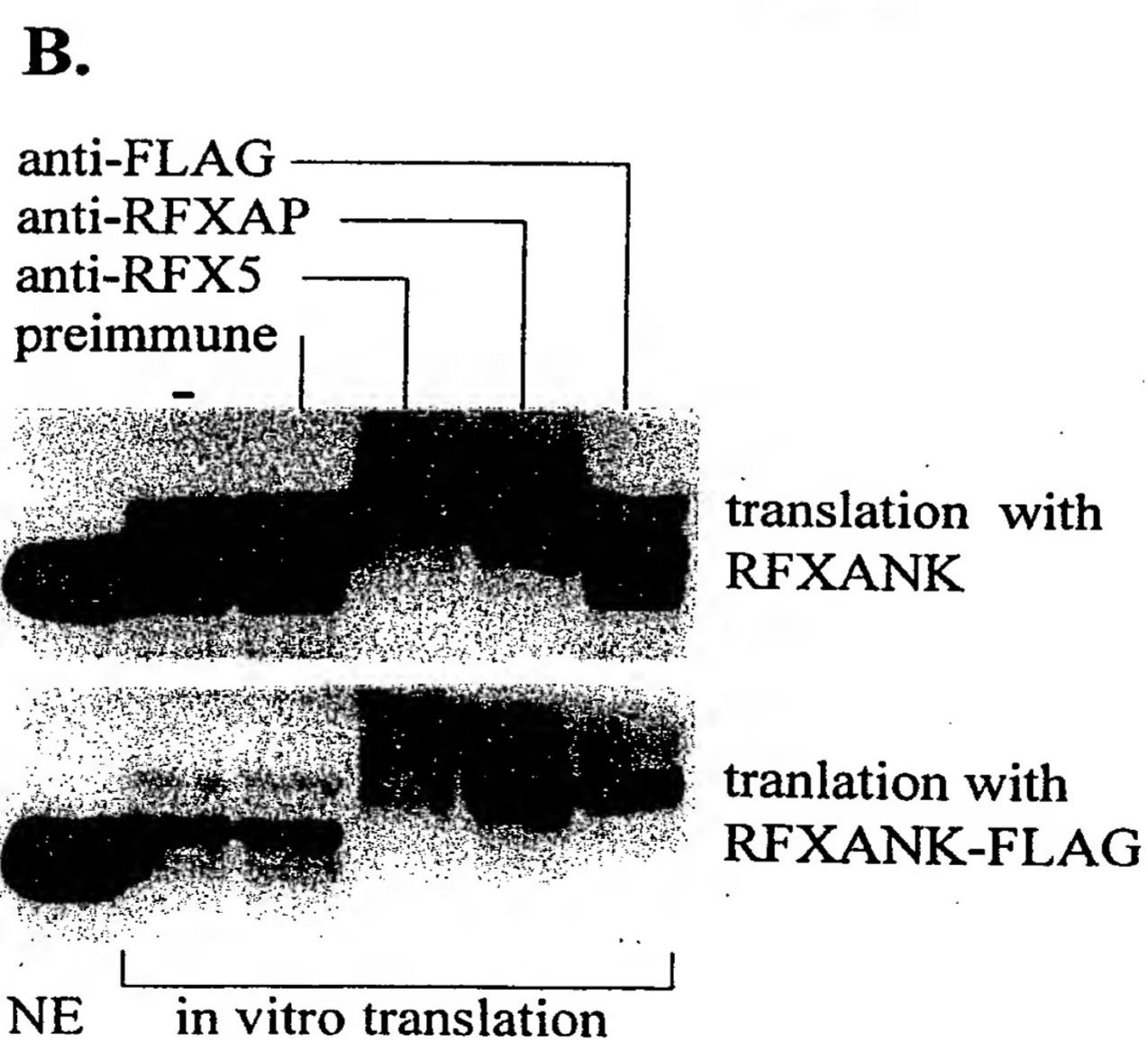
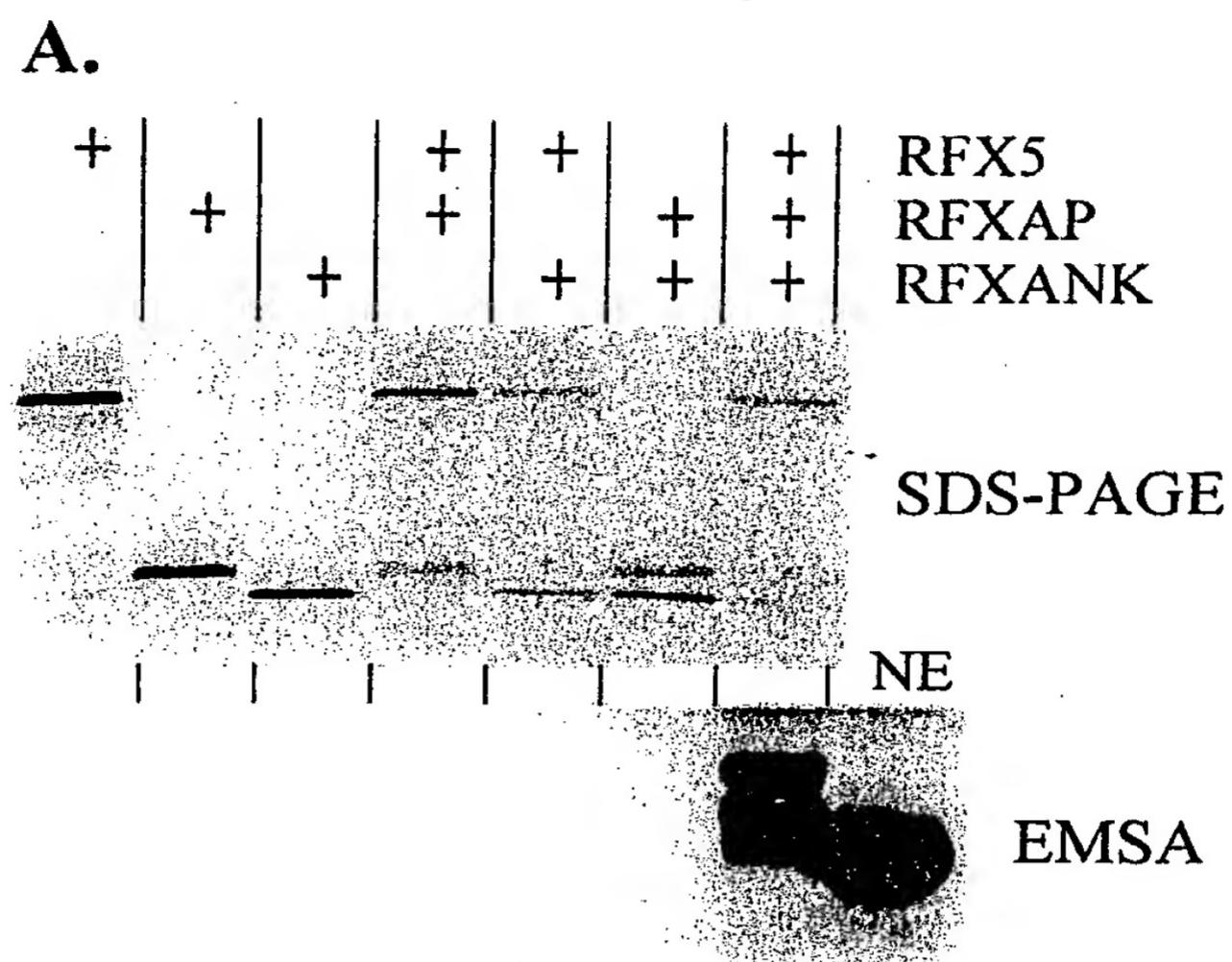


FIG. 6

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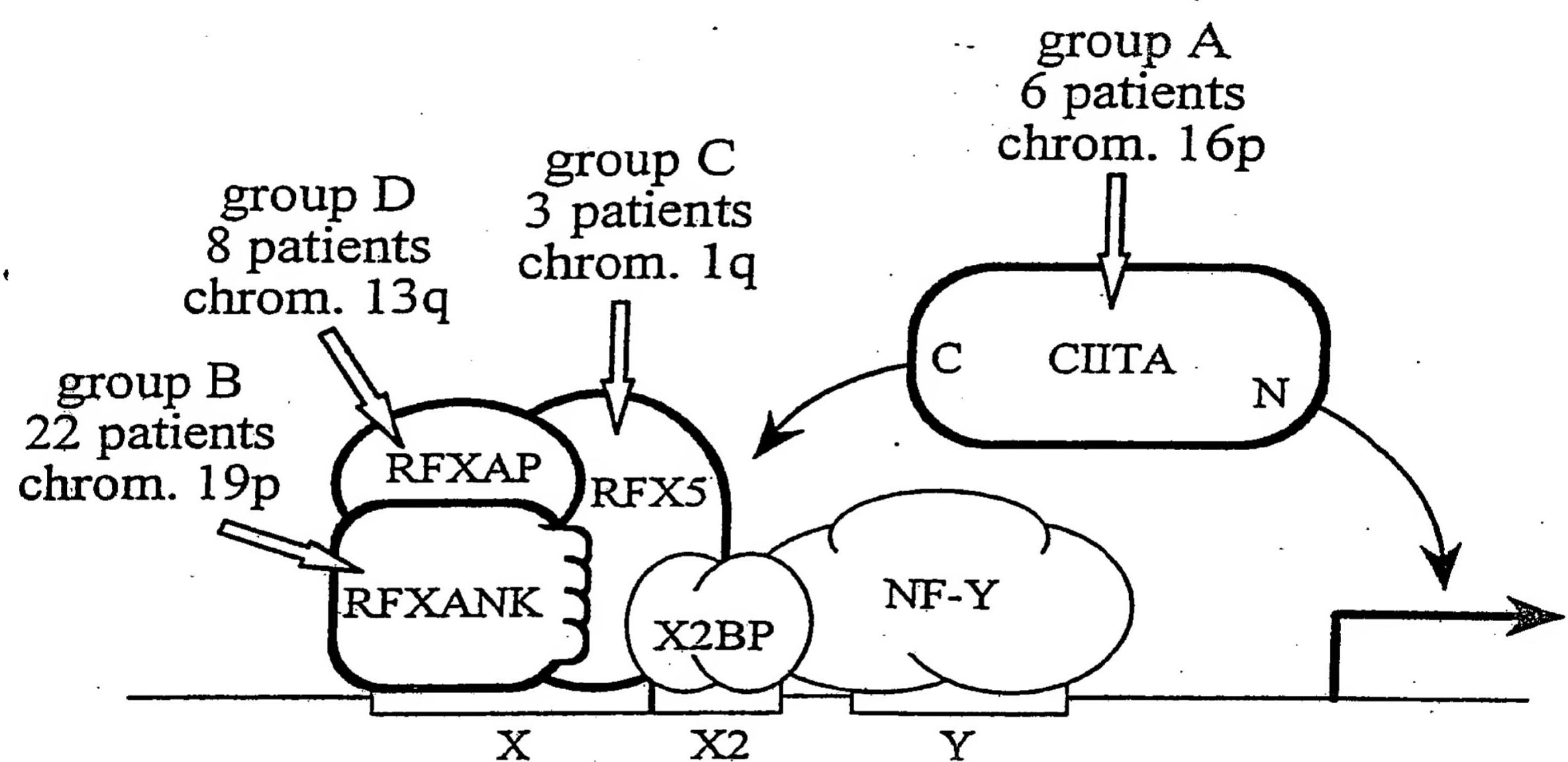


FIG. 7

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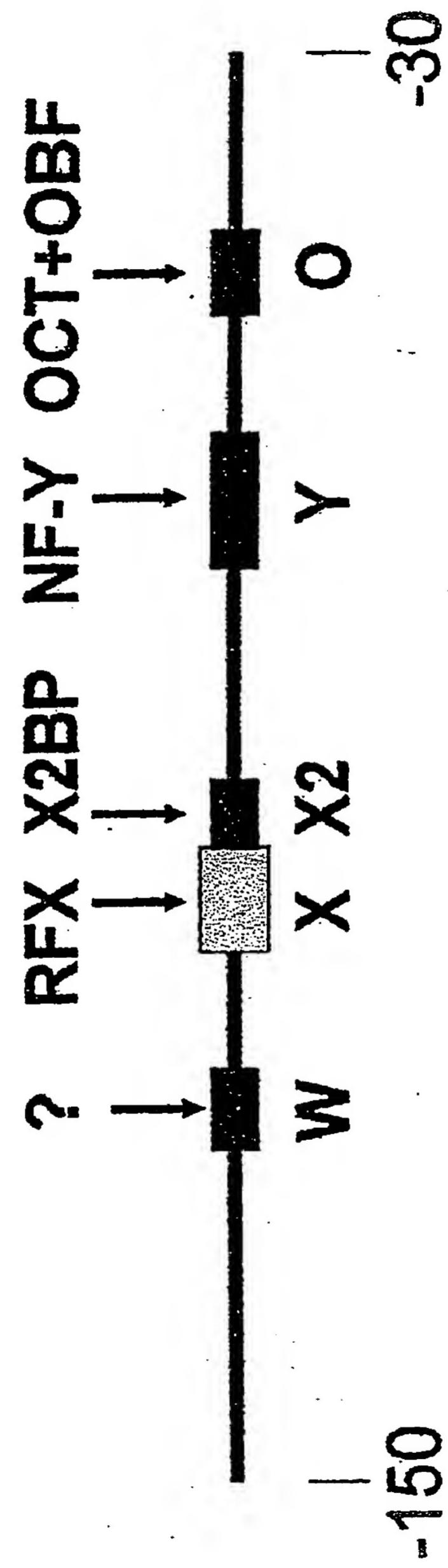


FIG. 8

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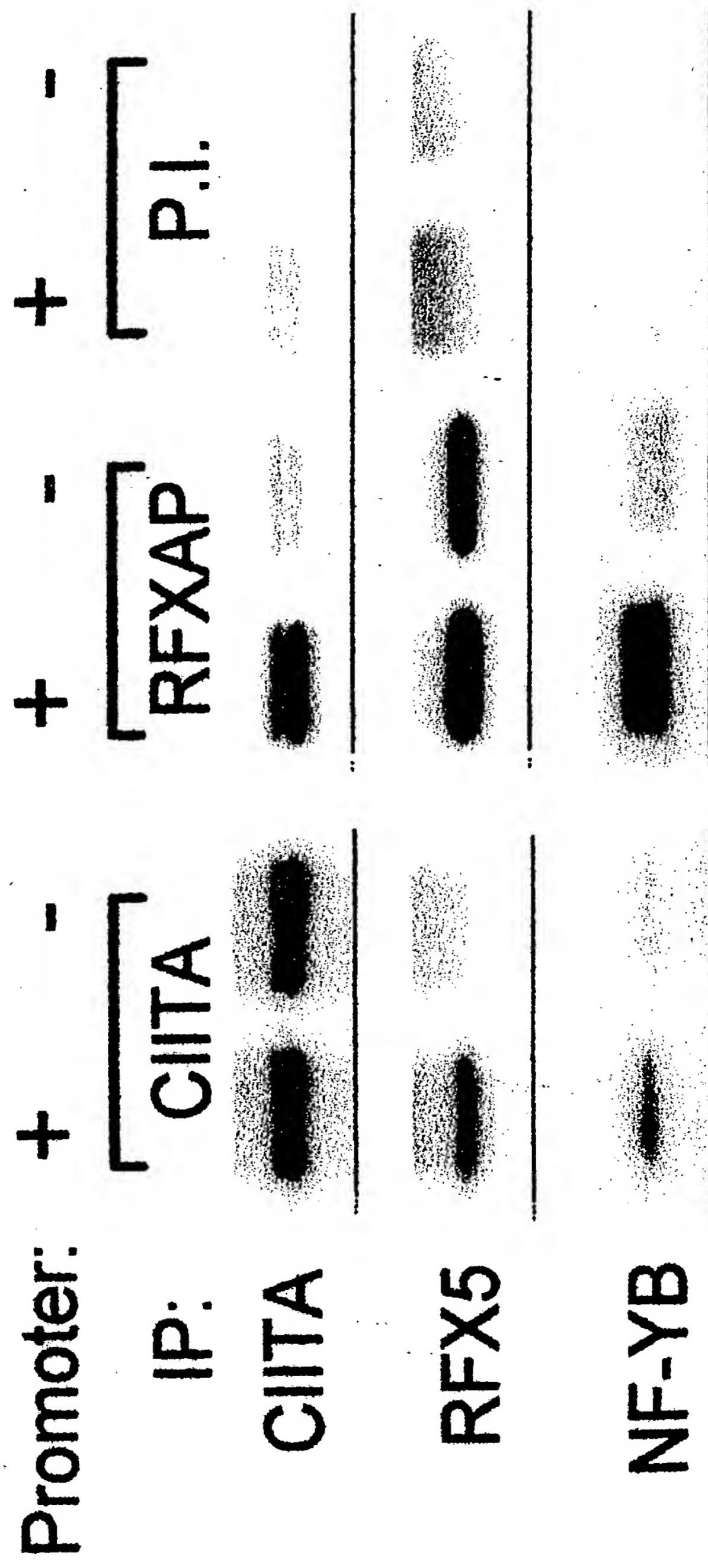


FIG. 9

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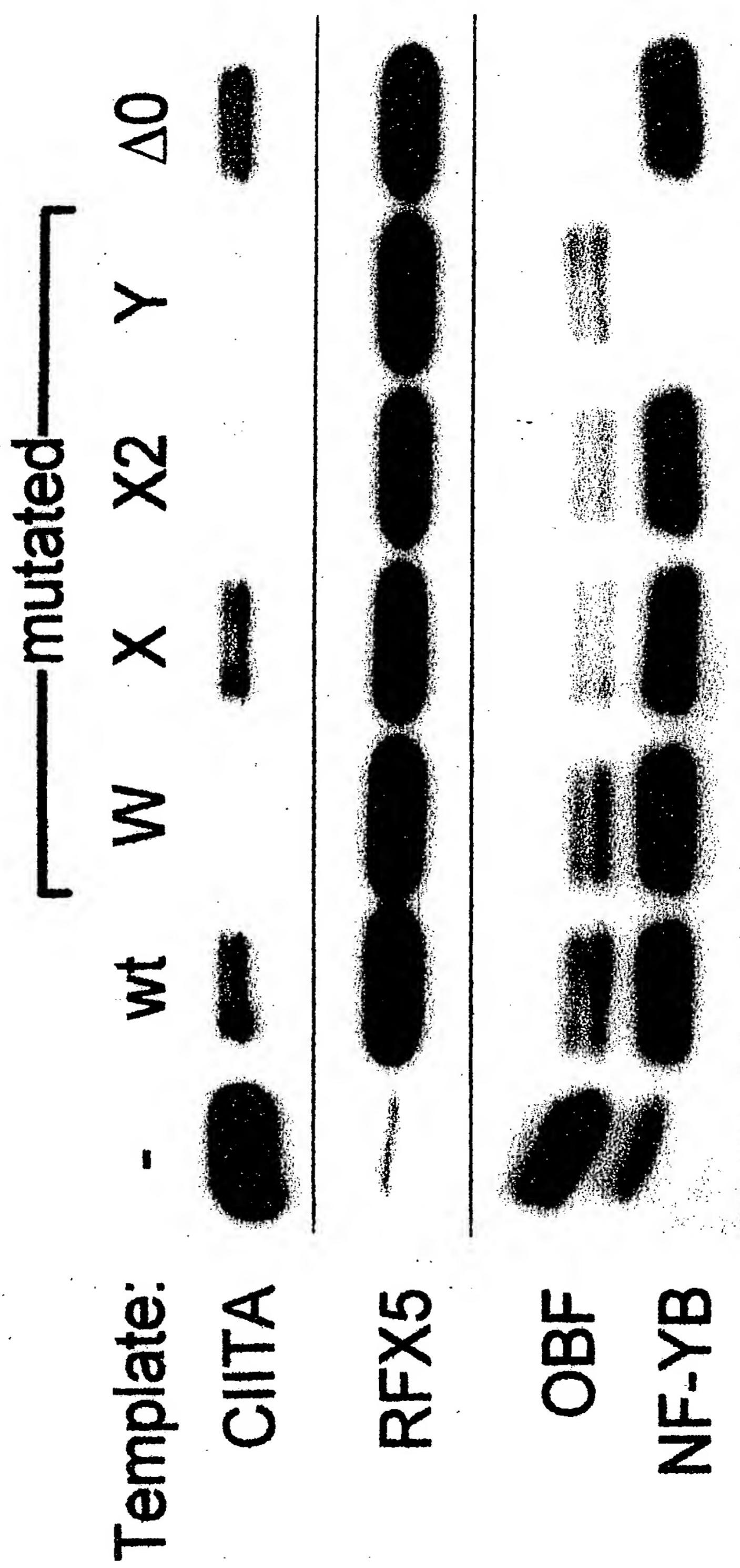


FIG. 10A

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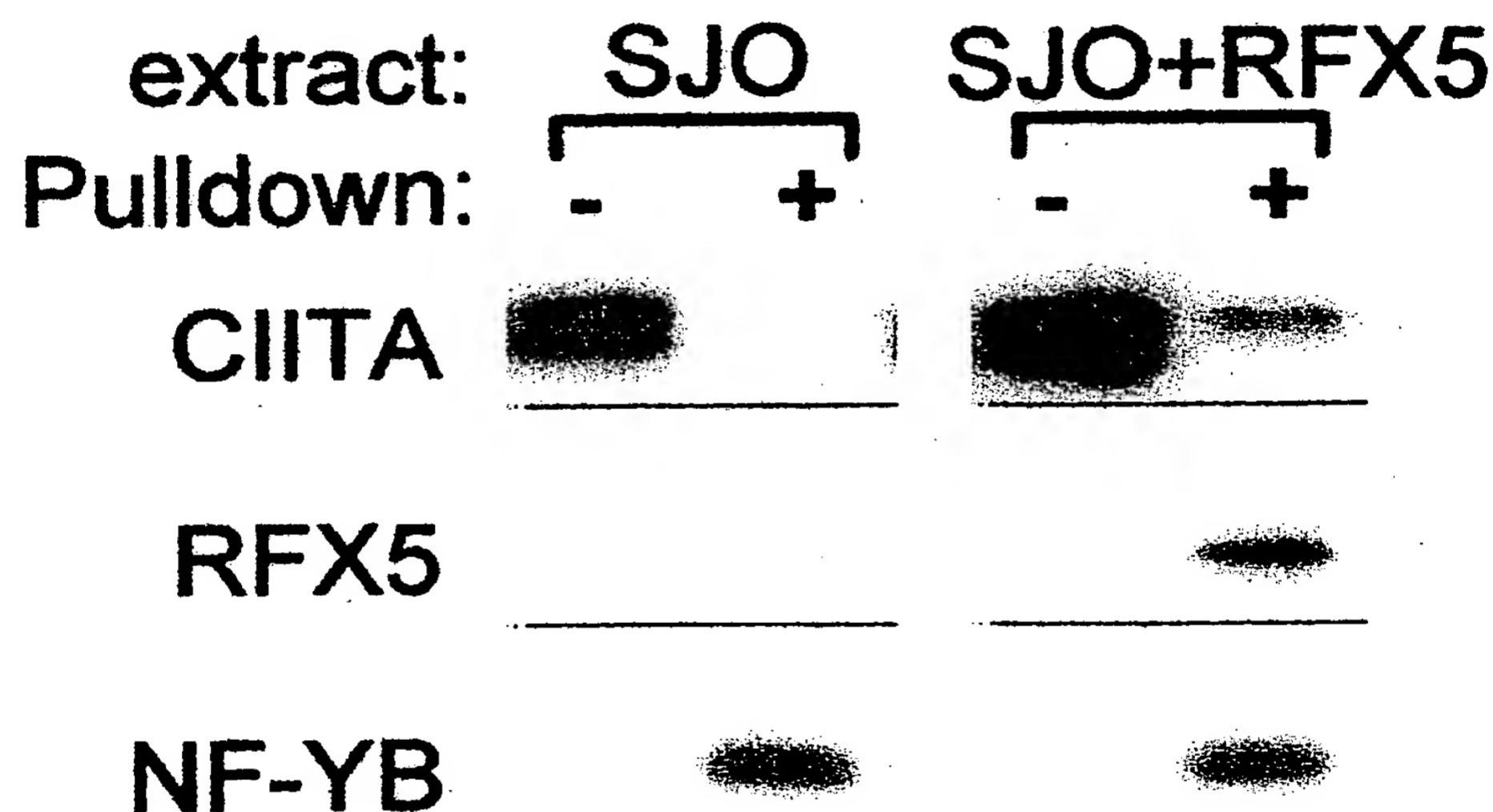


FIG. 10B

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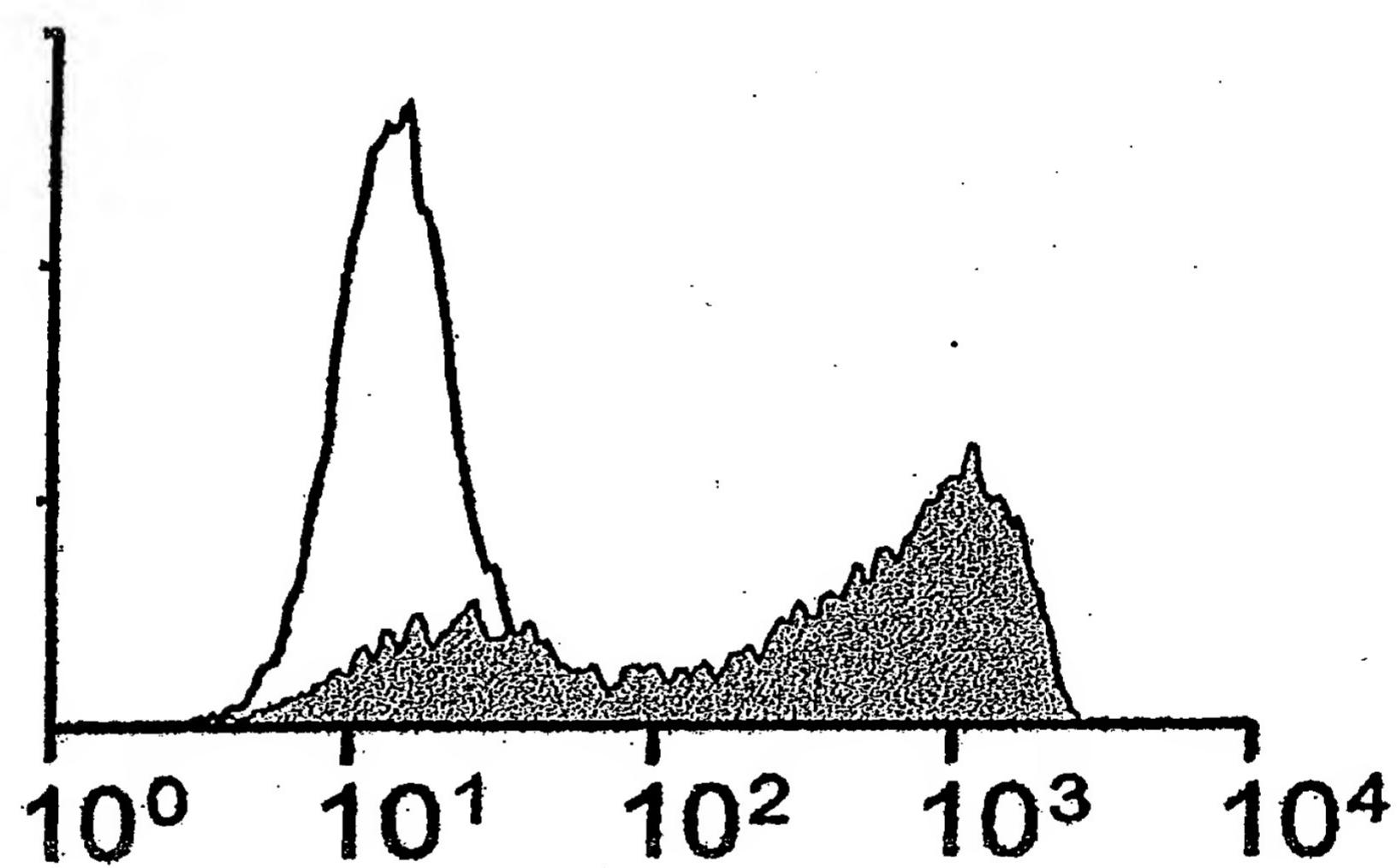


FIG. 10C

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FIG. 11A

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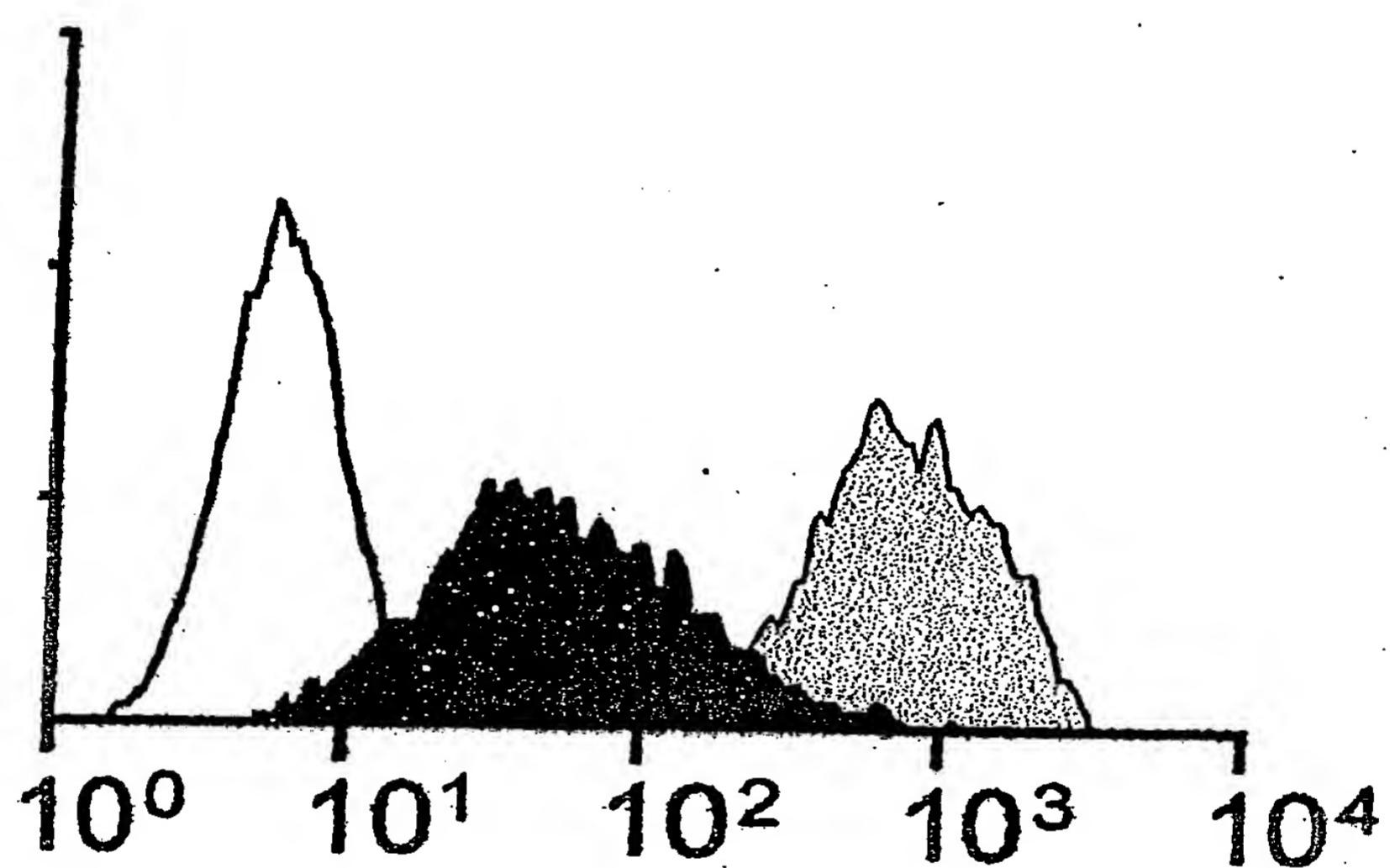


FIG. 11B

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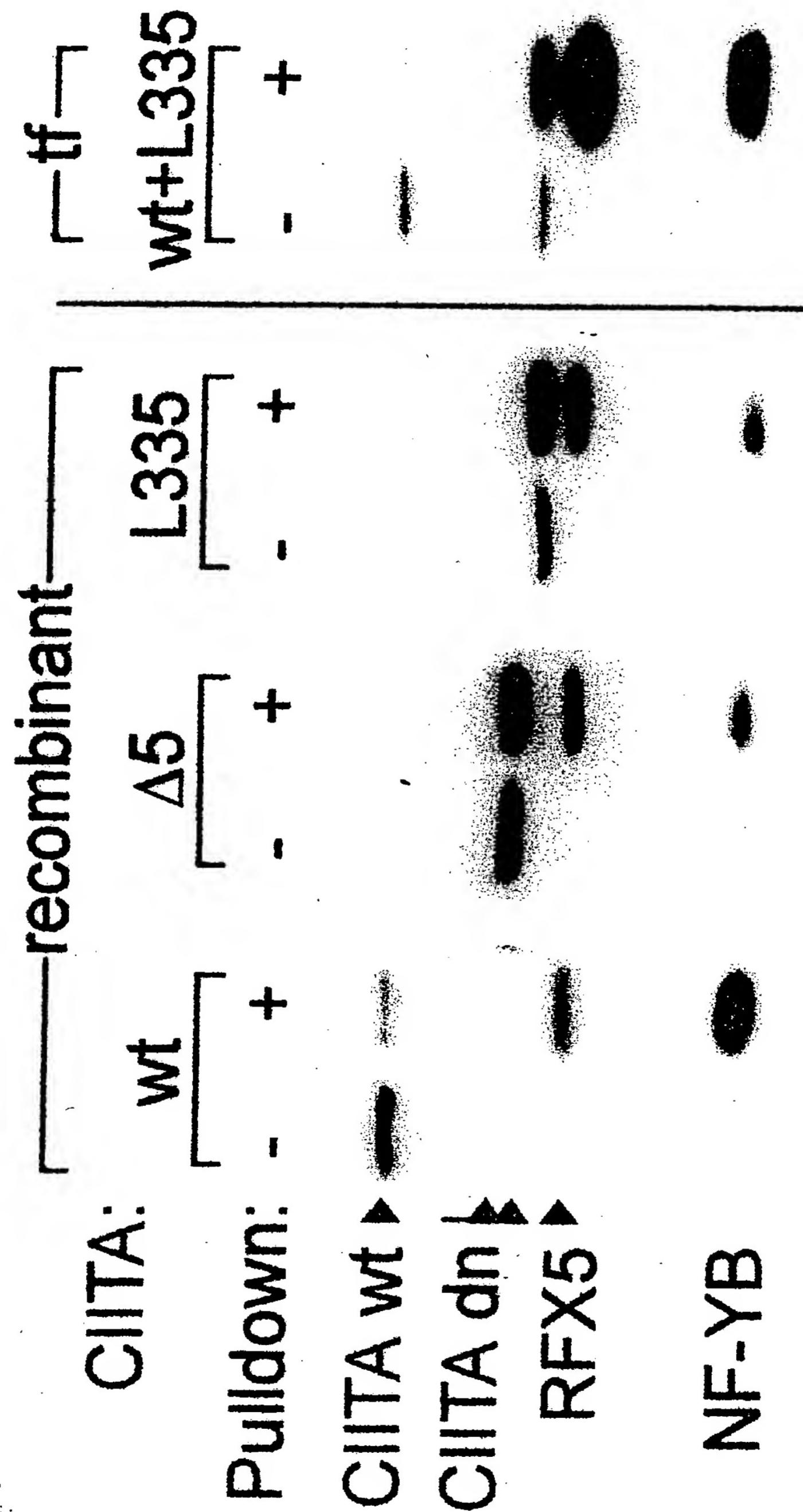


FIG. 11C

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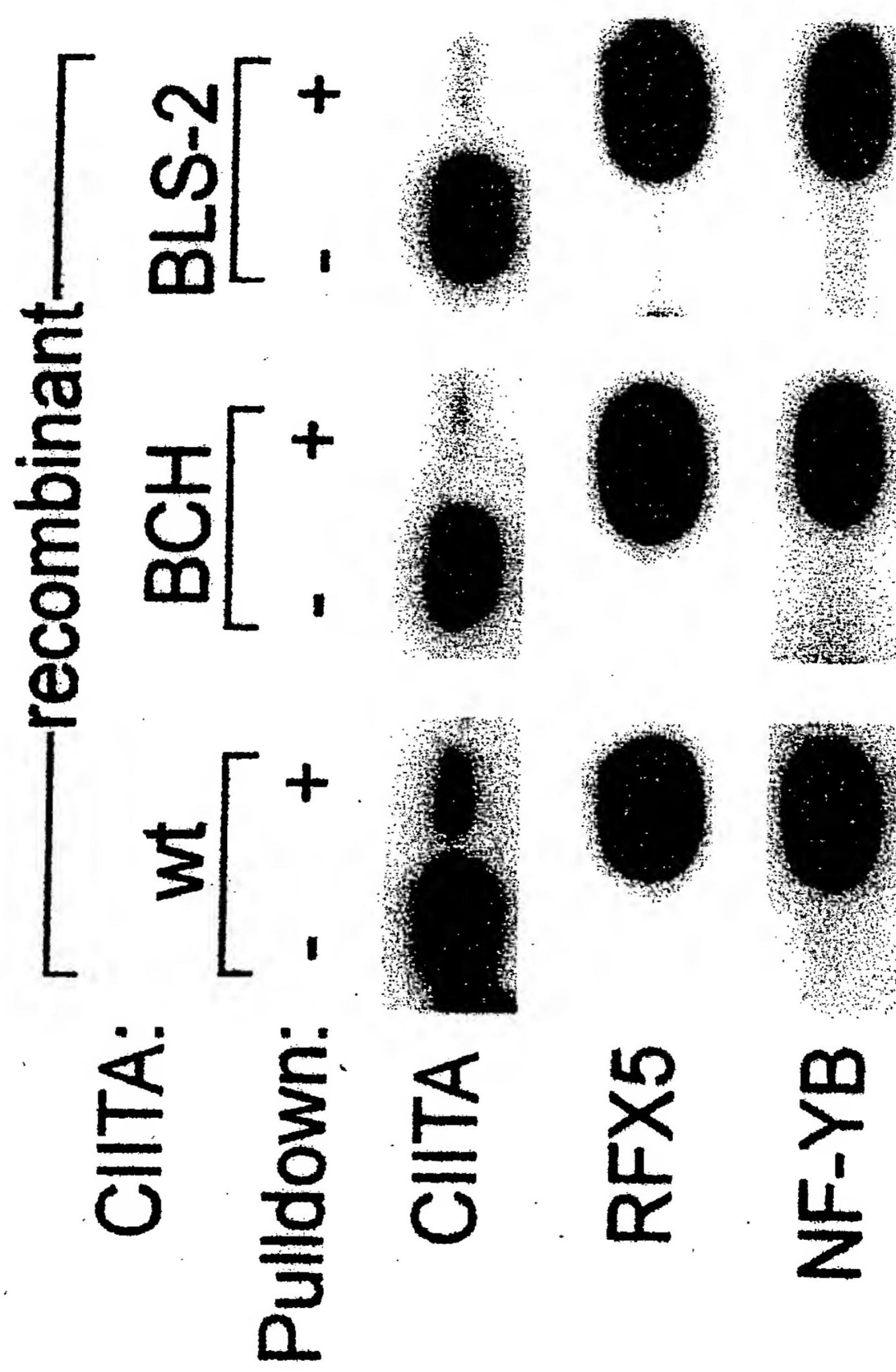


FIG. 11D